

Weight, Friction, and Equilibrium

Weight

Force of Weight (in Newtons) $\rightarrow$ **$F_w = mg$** $\leftarrow$ Mass (in kg)
 Acceleration of gravity (9.8 m/s^2)

Weight equals mass times the acceleration of gravity.

Weight is the force of gravity on mass.

Mass is the amount matter (atoms and molecules) of an object.

Weight changes if gravity changes; mass does not change with gravity.



On another planet your mass would be the same, but your weight would change depending on the amount of gravity.

On the moon you would weight 1/6th your weight on the earth, because the moon's gravity is 1/6th that of earth's. A large bag of dogfood could be carried easily with one arm.

Ex. What is the weight of a 2 kg mass?

Variables:
 $2 \text{ kg} = m$
 $g = 9.8 \text{ m/s}^2$
 $F_w = ?$

Equation:
 $F_w = mg$
 Solve:
 $F = (2 \text{ kg})(9.8 \text{ m/s}^2)$
 $F = 19.6 \text{ N}$

Ex. What is the mass of a 39.2 N mass?

Variables:
 $g = 9.8 \text{ m/s}^2$
 $39.2 \text{ N} = F_w$
 $m = ?$

Equation: $F_w = mg$
 $m = F_w/g$
 Solve:
 $m = (39.2 \text{ N})/(9.8 \text{ m/s}^2)$
 $m = 4 \text{ kg}$

If you know mass you can find weight; if you know weight you can find mass.

$F_w = mg$ allows you to convert between mass and weight easily.



The Feather or the Hammer?

Do heavy things fall faster?
 NO! They fall at the same rate.



Heavy and light object fall at the same rate.

g is a constant — 9.8 m/s^2
 The acceleration of all falling objects is the same.

Yet you know that a hammer will fall faster than a feather. Why?
 Because the feather has more air friction.

Friction

Friction is caused by two things moving against each other.

Friction always opposes motion.

Friction causes things to wear out and causes heat, so we use lubricants to reduce friction.



Net Force = $100\text{N} - 20\text{N} = 80\text{N}$ (right)

Kinds of Friction (from most to least friction): sliding (rubbing) friction; rolling friction; viscous friction (in fluids); air friction.

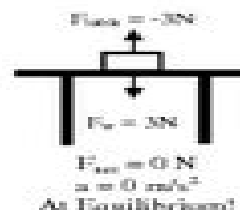
Equilibrium (State of Equality)

At equilibrium the following are true:

$F_{\text{net}} = 0 \text{ N}$ (no net force)
 $a = 0 \text{ m/s}^2$ (no acceleration)
 $\Delta v = 0 \text{ m/s}$ (constant speed)

An object at rest is also at equilibrium with a constant speed of 0 m/s.

Object on a Table



Object at Constant Speed



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Table of Contents Weight Friction And Equilibrium 3 2 Key

1. Understanding the eBook Weight Friction And Equilibrium 3 2 Key
 - The Rise of Digital Reading Weight Friction And Equilibrium 3 2 Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Weight Friction And Equilibrium 3 2 Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Weight Friction And Equilibrium 3 2 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Weight Friction And Equilibrium 3 2 Key
 - Personalized Recommendations
 - Weight Friction And Equilibrium 3 2 Key User Reviews and Ratings
 - Weight Friction And Equilibrium 3 2 Key and Bestseller Lists

5. Accessing Weight Friction And Equilibrium 3 2 Key Free and Paid eBooks
 - Weight Friction And Equilibrium 3 2 Key Public Domain eBooks
 - Weight Friction And Equilibrium 3 2 Key eBook Subscription Services
 - Weight Friction And Equilibrium 3 2 Key Budget-Friendly Options
6. Navigating Weight Friction And Equilibrium 3 2 Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Weight Friction And Equilibrium 3 2 Key Compatibility with Devices
 - Weight Friction And Equilibrium 3 2 Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Weight Friction And Equilibrium 3 2 Key
 - Highlighting and Note-Taking Weight Friction And Equilibrium 3 2 Key
 - Interactive Elements Weight Friction And Equilibrium 3 2 Key
8. Staying Engaged with Weight Friction And Equilibrium 3 2 Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Weight Friction And Equilibrium 3 2 Key
9. Balancing eBooks and Physical Books Weight Friction And Equilibrium 3 2 Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Weight Friction And Equilibrium 3 2 Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Weight Friction And Equilibrium 3 2 Key
 - Setting Reading Goals Weight Friction And Equilibrium 3 2 Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Weight Friction And Equilibrium 3 2 Key
 - Fact-Checking eBook Content of Weight Friction And Equilibrium 3 2 Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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